STATIC POWER

i-STS

Static Transfer Switches

Standard Commercial Product Catalogue 2016

i-STS

Static Transfer Switches

A superior technology

i-STS is the trademark product range of Intelligent Static Transfer Switches by Static Power.

i-STS units employ solid-state thyristors (Silicon Controlled Rectifiers) which means there are no moving parts. This allows for a faster switching time of less than a quarter of an AC cycle with higher reliability, making our units far superior to their relay based counterparts.

To avoid the dangers of parelleling power sources, all switching is break-before-make, where the break is so small that it ensures there will be no disruption to the operation of your connected equipment. Unlike relay based units that break and make anywhere on the power/voltage curve, all changeovers occur at zero current (zero power) where the load demand at that point is minimal. The inferior relay types often provide high transient voltages during the change over as a consequence.

With in-built *intelligence*

Each unit contains a Complex Programmable Logic Device (CPLD) that runs through advanced fault detection algorithms and refers back to user settings before making a decision to transfer. The logic software ensures the transfer is initiated only when it is needed and when there can be no interruption to your critical load or supplies.

Protect your investment with i-STS

Static Power i-STS units have been installed in a range of applications around the world

- Retail distribution centres
- Power generation plants
- Airfield systems control
- Railway signaling
- Building security
- Hospitals
- Data centres
- Telecommunications
- Critical IT operations
- Automated manufacturing
- Universities
- Road infrastructure

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Rack Mount Units

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Wall Mount Units

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Model A 16 or 32 Amps

i-STS
Static Transfer Switches

Simple, reliable redundancy

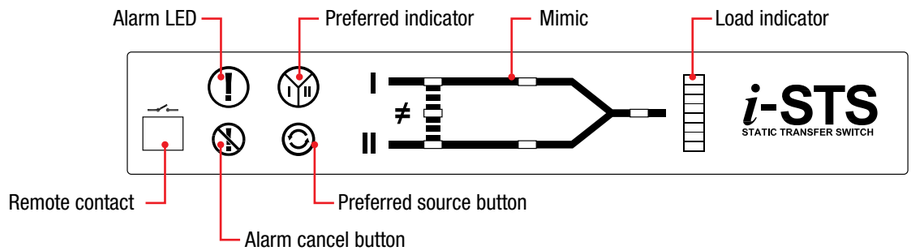
The Model A is the starting point for our range of static transfer switches, all of which employ solid-state thyristor (SCR) switching. The refined design delivers high reliability at exceptional value, all fitting into a compact 1RU rack mount.

The front panel features an simple and easy-to-use LED mimic status and load indicator.

Available options
- 16 or 32 Amp current capacity
- Input isolator switches optional
- Optional I/O configurations

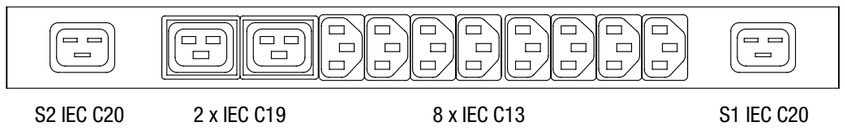
Key Features
- Small 1RU Design
- 2 pole, single phase
- Passively cooled
- IP rated LED mimic decal
- One touch transfers
- Visual and sound alarm
- Incoming source isolators optional
- Preferred source selection

LED mimic & load display

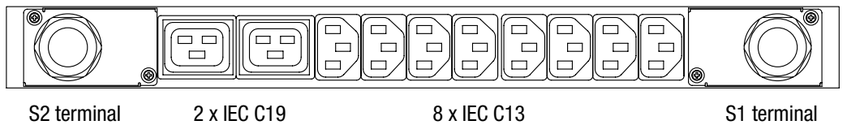


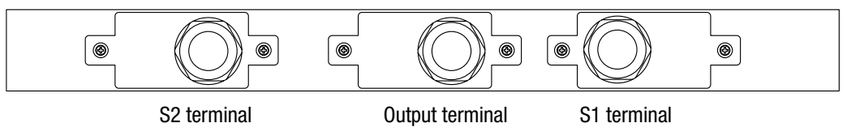
Input / Output configurations

16 Amp model



Options for 32 Amp model





Model A Technical Specifications

STATIC POWER

Power		
Type	2 poles / 1 phase (4 x AC static switches)	
Current rating	16 & 32 Amp	
Voltage rating	110 V or 230 V ± 20 %	
Safe install Enviroment	20 kA, 100 A Internally fused	
Frequency	50 / 60 Hz (auto detection) ± 10 %	
MaxTHDV	15 % (Max Allowable Source Voltage distortion)	
Power factor	No limit	
Crest factor	3.5:1	
Overload capacity	80 A for 30 sec 200 A for 1 sec 2 kA for 20 ms	
Inputs	IEC C20 (for 16 A)	6 mm² terminals (for 32 A)
Outputs	2 x IEC C19 & 8 x IEC C13	6 mm² terminals (for 32A)
Switching		
Transfer type	Thyristor / SCR - break before make	
Detection	Digital: <1 ms	
Break time	Normal: < 1 ms Max: < ¼ cycle	
Asynchronous break time (ms)	0 ms / 10 ms / 50 ms / proportional (User Settable)	
dV/dt max	800 V / µs	
MTBF	1,000,000 hours	
Device ratings	150 A RMS, 1200 V, 2kA, 1 cycle	
Fault current setting	300 % A peak (transfer lockout)	
Protection	100 A fuses	
Communication and Control		
User interface	LED mimic decal Preferred supply and alarm cancel buttons	
Contacts	Out: 1 x voltage free general alarm indicator	
Environmental		
Dimensions (H W D)(mm)	44 x 483 x 285 (16 A model)	44 x 483 x 307 (32 A model)
Weight	2.5 kg	
Temperature	0 - 40 °C	
Humidity	5 - 90 % non-condensing	
IP rating	IP44	
Compliance		
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / VC Capable	
Standard warranty	36 months repair or replacement policy	

Model B1 MK2 32 Amps

i-STS Static Transfer Switches

Big features, tiny footprint

With up to 32A of switching capacity, the Model B1 is perfect for any small to medium rack-based installation.

The Mark 2 revision of the Model B1 offers more customisable features including a 3-phase expansion and a field replaceable maintenance bypass adaption.

The front panel features an LED mimic and graphic OLED interface quick access to user access to settings and event list. Remote connectivity is made via ethernet and DB15 port.

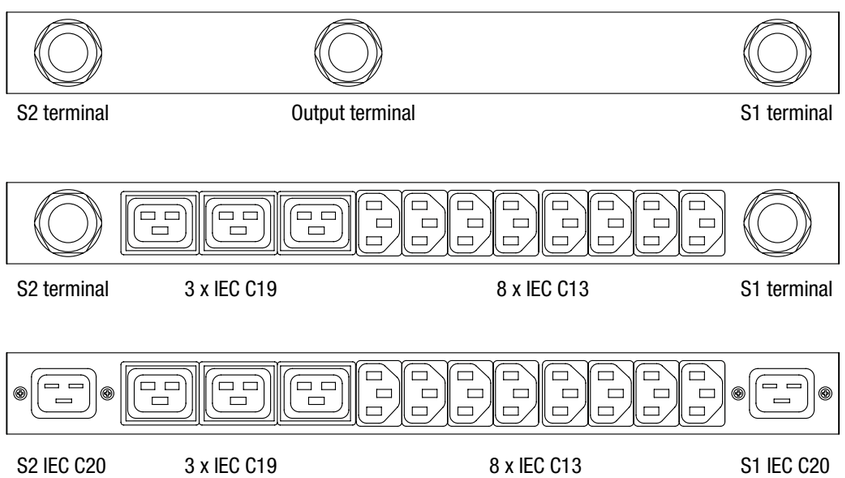
Key Features
- Small 1RU Design
- 2-pole single-phase
- 3 or 4-pole 3-phase with expansion
- Passively cooled
- LED mimic decal with graphic OLED interface
- One touch transfers
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- Flexible I/O configurations
- Integrated maintenance bypass expansion

Available options
- 20 or 32 Amp current capacity
- 2-pole single-phase
- 3-phase with expansion*
- Field replaceable maintenance bypass expansion*

*Features new to Model B1 Mark 2

Maintenance Bypass Expansion

Input / Output Configurations



Model B1 MK2 Technical Specifications

STATIC POWER

Power			
Type	2-poles / 1-phase	3-poles / 3-phase	4-pole 4-phase
Current rating	32 Amperes		
Voltage rating	110 V or 230 V ± 20%		
Safe install Enviromentt	20 kA, 100 A Internally fused		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15% (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	100 A for 30 sec 400 A for 1000 ms 2 kA for 20 ms		
Inputs	IEC C20 sockets or terminals		
Outputs	8 x IEC C13 & 3 x IEC C19		
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cyclee		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	1,000,000 hours		
Device ratings	150 A RMS, 1400 V, 2 kA, 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	100 A fuses		
Communication and Control			
User interface	LED mimic decal with graphic OLED Preferred supply and alarm cancel buttons		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	44 x 483 x 390 (D+200 with maintenance bypass expansion)		
Weight	7 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP31		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / VC Capable		
Standard warranty	24 months repair or replacement policy		

Model B2 32 or 63 Amps

i-STS Static Transfer Switches

Three phase, 2RU

The Model B2 is smallest of the three phase units, with a compact size of 2 RU. The B2 features a hot-swappable power module and integrated maintenance bypass allowing for continuous power during servicing.

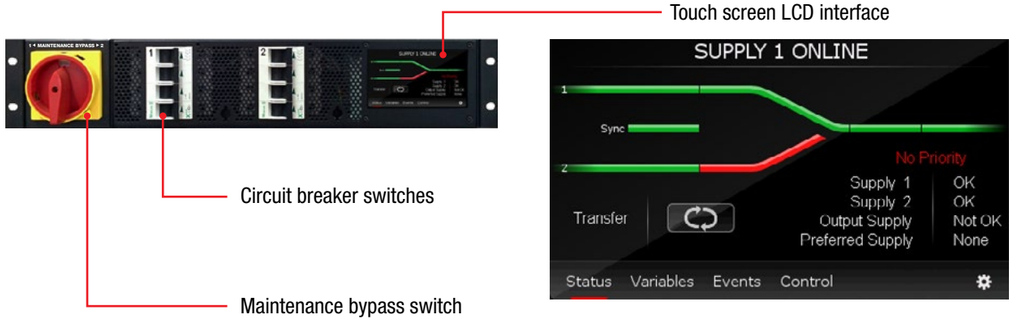
With up to 63A of current capacity, the B2 is ideal for those needing more power in a smaller rack mount package.

Key Features
- Small 2RU design
- Colour touch screen LCD interface
- One touch transfers
- Integrated maintenance bypass
- Hot socket field replaceable power module
- Incoming source isolators optional
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Available options
- 32 or 63 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- IP rated decal interface optional

Replaceable power module

Front panel features



Model B2 Technical Specifications

STATIC POWER

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	32 & 63 Amperes		
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)		
Safe install Enviromentt	20 kA, 100 A Internally fused		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15 % (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	100 A for 30 sec 400 A for 1 sec 2 kA for 20 ms		
Inputs	16 mm² terminals		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	800,000 hours		
Device ratings	134 A RMS, 1600 V, 2 kA, 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	100 A fuses		
Communication and Control			
User interface	Colour touch screen LCD (IP rated decal available)		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	88 x 483 x 520		
Weight	15 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP41		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval / RCM / 61000-6-3 / VC Capable		
Standard warranty	24 months repair or replacement policy		

Model B4 80 or 160 Amps

i-STS Static Transfer Switches

High Power Density

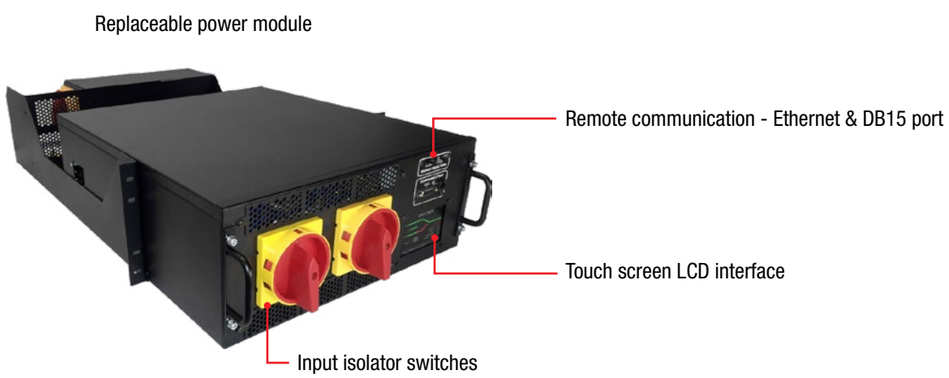
The Model B4 is a high power capacity, rack-mount static transfer switch with a hot-swappable power module design. This unit is ideal for high power installations with the convenience of fitting into a standard 19-inch rack. The front has two input isolator switches and a maintenance bypass switch at the rear.

Available options
- 63 / 80 / 125 / 160 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- IP rated decal interface optional

Key Features
- Convenient 4RU Design
- Colour touch screen LCD interface
- One touch transfers
- Input isolator switches
- Integrated maintenance bypass
- Hot socket field replaceable power module
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Rear view

Key features



Model B4 Technical Specifications

STATIC POWER

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63 , 80 , 100 , 125 , 160 Amperes		
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)		
Safe install Enviroment	20 kA, 200 A Internally fused		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15% (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	360 A for 30 sec 500 A for 1 sec 10 kA for 20 ms		
Inputs	M6 cable lug (Up to 35/50 mm² or 70mm² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cyclee		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	800,000 hours		
Device ratings	360 A RMS, 1600 V, 10 kA for 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	100 A for 63 amp rating and / 200 A fuses all other		
Communication and Control			
User interface	Touch screen LCD (IP rated decal available)		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alert		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	177 x 483 x 650		
Weight	25 - 35 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months repair or replacement policy		

Space saving design

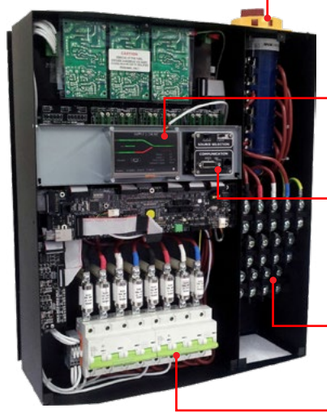
A wall mount unit for use at the point of distribution where the static transfer switch is close to the load. The Model W has an excellent power rating to size ratio making it ideal for high current, small space installations.

Key Features
- Space saving wall-mount design
- Colour touch screen LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts

Available options
- 32 / 63 / 100 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- IP rated decal interface available

Internal view

Front panel removed / protective panels



Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 4-phase
Current rating	32 A, 50 A, 63 A, 80 A, 100 A		
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)		
Safe install Enviroment	20 kA, 100 A Internally fused (200 A Internallyfuses for 100 A rated STS)		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THD	15% (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	120 A for 30 sec 200 A for 0.5 sec 400 A for 100 ms 2 kA for 20 ms		
Inputs	M6 cable lug (Up to 35/50 mm² or 70mm² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	800,000 hours		
Device ratings	134 A RMS, 1600 V, 2kA for 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	200 A fuses		
Communication and Control			
User interface	Colour touch screen LCD (IP rated decal interface available)		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	460 x 260 x 550		
Weight	25 - 35 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP44		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	36 months repair or replacement policy		

Fuse-less wall mount

The Model C has a high power capacity catering for industrial installations of up to 250A. It includes a maintenance bypass option via a 5 x circuit breaker array.

Key Features
- Fuse-less design
- Space saving wall-mount design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options
- 63 / 100 / 125 / 160 / 200 / 250 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase
- Maintenance bypass via 5 x circuit breakers

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63 A, 100 A, 125 A, 160 A, 200 A, 250 A		
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)		
Safe install Enviroment	20 kA for 20 ms, fuse-less design		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15 % (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	500 A for 30 sec 1 kA for 1 sec 20 kA for 20 ms		
Inputs	Top or bottom entry M6 cable lugs (Up to 35/50 mm² or 70mm² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	800,000 hours		
Device ratings	600 A, 1800 V, 20 kA for 1 cycle		
Fault current setting	300% A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply switch Override supply switch		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free general alarm indicator		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	800 x 600 x 400		
Weight	75 - 115 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP54		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months repair or replacement policy		

Model H 63 to 250 Amps

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Static Transfer Switches

Small footprint, fuse-less

Developed with the conservation of floor space in mind, the Model H has the industry's smallest footprint for its capacity. Maintenance bypass is standard via a 5 x circuit breaker array.

The design of the enclosure accomodates wiring of the input and output from either the top or bottom.

Key Features
- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options
- 63 to 250 Amp current capacity
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase

Model H Technical Specifications

STATIC POWER

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	63 A, 100 A, 125 A, 160 A, 200 A, 250 A, 300 A		
Voltage rating	110 V, 220, 230 or 230 /400 V ± 20 %, (other voltage ratings available)		
Safe install Enviroment	20 kA for 20 ms, fuse-less design (34 kA optional)		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15 % (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	500 A for 1 sec 1 kA for 100 ms 20 kA for 20 ms		
Inputs	Top or bottom entry M6 cable lugs (Up to 35/50 mm² or 70 mm² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	1,000,000 hours		
Device ratings	600 A, 1800 V, 20 kA for 1 cycle		
Fault current setting	300 % A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply and alarm cancel buttons Override supply switch		
Contacts	In: 2 x self wetting transfer controls Out: 5 x voltage free status indicators		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	1300 x 600 x 300		
Weight	75 - 165 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months repair or replacement policy		

High Capacity

The Model K is a 3 or 4 pole, 3-phase free standing static transfer switch.

At just 500mm deep the Model K is ideally suited for installation within corridors, computer/UPS rooms, where space comes at a premium.

Key Features
- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options
- 250 / 300 / 400 / 630 Amp current rating
- 2-pole, single-phase
- 3-pole, 3-phase
- 4-pole, 3-phase

Power			
Type	2-pole / 1-phase	3-pole / 3-phase	4-pole / 3-phase
Current rating	250 A / 300 A / 400 A / 630 A		
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)		
Safe install Enviroment	20 or 34 or 36 kA for 20 ms, fuse-less design		
Frequency	50 / 60 Hz (auto detection) ± 10 %		
Max THDV	15% (Max Allowable Source Voltage distortion)		
Power factor	No limit		
Crest factor	3.5:1		
Overload capacity	500 A for 30 sec 1 kA for 1 sec 20 or 34 or 36 kA for 20 ms optional		
Inputs	Top or bottom entry M8 cable lugs (Up to 95/120 mm² using narrow palm lugs)		
Outputs			
Switching			
Transfer type	Thyristor / SCR - break before make		
Detection	Digital: <1 ms		
Break time	Normal: < 1 ms Max: < ¼ cycle		
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)		
dV/dt max	800 V / µs		
MTBF	800,000 hours		
Device ratings	600 / 800/ 1200 A @ 20, 28 & 34 kA (as optioned)		
Fault current setting	300% A peak (transfer lockout)		
Protection	Circuit breakers		
Communication and Control			
User interface	LED mimic decal with monochrome graphic LCD Preferred supply switch Override supply switch		
Contacts	In: 2 x self wetting controls Out: 5 x voltage free contacts		
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts		
MODBUS RTU (optional)	RS232 / RS485		
Environmental			
Dimensions (H W D)(mm)	1900 x 800 x 500		
Weight	195 kg		
Temperature	0 - 40 °C		
Humidity	5 - 90 % non-condensing		
IP rating	IP21		
Compliance			
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval		
Standard warranty	24 months repair or replacement policy		

High Power Density

The Model G is a 3 or 4-pole, 3-phase free standing static transfer switch. With a switching capacity of up to 1600 Amps and a fault current rating of 50 kA, this robust unit will cater for even the most demanding installations.

Key Features
- High capacity capable
- Fuse-less design
- LED mimic decal with monochrome graphic LCD interface
- One touch transfers
- Integrated maintenance bypass
- Visual and sound alarm
- Integrated web server
- Remote operation
- High Level Interface - MODBUS, SNMP
- Email alerts
- High fault current capacity

Available options
- 3-pole or 4-pole 3-phase
- Current rating of 200 through to 1600 Amps

Power		
Type	3-pole / 3-phase	4-pole / 3-phase
Current rating	200 A through to 1600 A	
Voltage rating	110 , V 220, 230 or 230 / 400 V ± 20 %, (other voltage ratings available)	
Safe install Enviroment	34 kA optioned to to 50 kA for 20 ms, fuse-less design (60 kA available)	
Frequency	50 / 60 Hz (auto detection) ± 10 %	
Max THDV	15% (Max Allowable Source Voltage distortion)	
Power factor	No limit	
Crest factor	3.5:1	
Overload capacity	125% for 1 hour 150% for 30 sec 34 kA for 20 ms	
Inputs	Top or bottom entry M10 cable lugs	
Outputs		
Switching		
Transfer type	Thyristor / SCR - break before make	
Detection	Digital: <1 ms	
Break time	Normal: < 1 ms Max: < ¼ cycle	
Asynchronous break time (ms)	0 ms / 4 ms / 50 ms / 150 ms / proportional (User Settable)	
dV/dt max	800 V / µs	
MTBF	800,000 hours	
Device ratings	1200 A / 2400 A RMS, 1600 V, 34 kA (or 60kA) , 1 cycle	
Fault current setting	300% A peak (transfer lockout)	
Protection	Circuit breaker	
Communication and Control		
User interface	LED mimic decal with monochrome graphic LCD Preferred supply and alarm cancel buttons	
Contacts	In: 2 x self wetting controls Out: 5 x voltage free contacts	
Ethernet	HTTP - web user interface for reporting & control SNMP - 120 unique reports & transfer control MODBUS - 120 unique reports & transfer control Email alerts	
MODBUS RTU (optional)	RS232 / RS485	
Environmental		
Dimensions (H W D)(mm)	2100 x 1400 x 600	
Weight	195 - 255 kg	
Temperature	0 - 40 °C	
Humidity	5 - 90 % non-condensing	
IP rating	IP21	
Compliance		
Regulatory approvals	AS3100 & ASNZ / IEC 62310-1,2 & 3, CE Approval	
Standard warranty	12 months repair of replacement policy	

Comparison Table

i-STS
Static Transfer Switches

		Model A	Model B1 MK2	Model B2	Model B4	Model W	Model C	Model H	Model K	Model G
Current Capacity	16 A	●								
	20 A	●								
	32 A	●	●	●		●				
	63 A			●		●	●	●		
	80 A				●	●	●	●		
	100 A				●	●	●	●	●	
	125 A				●		●	●	●	
	160 A				●		●	●	●	
	200 A						●	●	●	●
	250 A						●	●	●	●
	300 A								●	●
	400 A								●	●
	600 A								●	●
	up to 1.6 kA									●
Fault Current	1kA for 20ms	●								
	2kA for 20ms		●	●		●				
	10kA for 20ms				●					
	20kA for 20ms						●	●	●	
	36kA for 20ms						●	●	●	●
	50kA for 20ms									●
Communication & control	Ethernet		●	●	●	●	●	●	●	●
	MODBUS		●	●	●	●	●	●	●	●
	DB15 port		●	●	●	●	●	●	●	●
	LED decal	●	●	optional	optional	optional	●	●	●	●
	LCD & controls		●	optional	optional	optional	●	●	●	●
	Touch screen LCD			●	●	●				

Notes

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Static Transfer Switches

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